

Rec'd PCT/PTO 18 JAN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
WO 2004/006036 A3

(51) International Patent Classification<sup>7</sup>: G05D 23/19, H05B 3/00

(74) Agent: NISZTUK, Helena; Lubuski Klub Techniki i Racionalizacji, ul. Niecalna 2F, PL-65-245 Zielona Góra (PL).

(21) International Application Number:

PCT/PL2003/000064

(22) International Filing Date: 2 July 2003 (02.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

354910 5 July 2002 (05.07.2002) PL

(71) Applicant (for all designated States except US): SECO/WARWICK SP. Z O.O. [PL/PL]; ul. Sobieskiego 8, PL-66-200 Swiebodzin (PL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KORECKI, Maciej [PL/PL]; ul. Zaków 4D/9, PL-66-200 Swiebodzin (PL).

(81) Designated State (national): US.

(84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

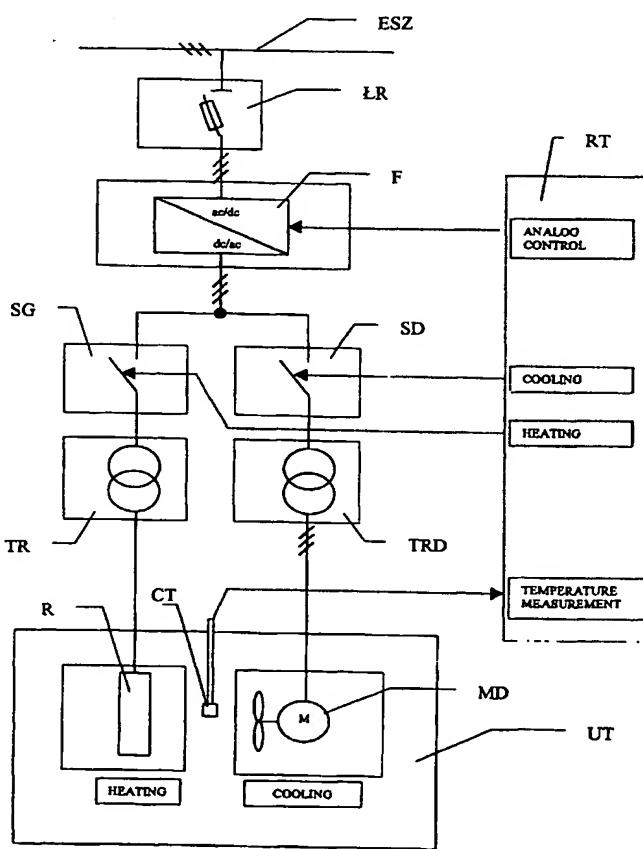
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 18 March 2004

[Continued on next page]

(54) Title: TEMPERATURE CONTROL SYSTEM



(57) Abstract: The purpose of the present invention is to create a temperature control system applied in heating and cooling phases of thermal processing. The invented temperature control system consists of a single frequency converter F to whose output, through contactors, are simultaneously connected: at least one heating system and at least one cooling system. The heating system incorporating resistance heating elements R is actuated by the heating system contactor SG. The cooling system incorporating gas blower, 3-phases induction motor MD is actuated by the blower motor contactor SD. The heating and cooling system contactors (SG and SD) are connected to the output of the frequency converter F and are controlled by the temperature controller RT.

WO 2004/006036 A3